CLAIMS

1. An implant for occluding a passage in a circulatory system, the implant comprising

a plurality of thin elongate members (1) each having a first end and a second end;

a first holder (3) to which the first ends of the elongate members (1) are attached;

a second holder (4) to which the second ends of the elongate members (1) are attached, the elongate members (1) being attached to the first and second holders (3, 4);

a first occluding body (2) being attached to the elongate members (1);

the implant forming in a first state an elongated article extending along a longitudinal axis (A), the implant being adapted in the first state for insertion into the circulatory system and the implant being adapted to be brought into a second state in the circulatory system, wherein the distance between the holders (3, 4) being reduceable in a manner to cause the elongate members (1) to execute a twisting motion relative to the axis (A) to yield a plurality of generally radially extending loops forming at least one fixation structure, thereby increasing a cross-section of the occluding body (2) and the at least one fixation structure being fixable in the second state,

characterized in that

the implant comprises at least one second occluding body (2') being attached to the elongate members (1) at a distance to the first occluding body (2) and wherein the distance between the first and the second occluding body (2, 2') is reduceable by reducing the distance between the two holders (3, 4), wherein at least one of the group of the following fixation structures is formed: a first of said fixation structure between the first occluding body (2) and the first holder (3) and a second of said fixation structure between the second occluding body (2') and the second holder (4).

2. The implant according to claim 1, wherein both the first and the at least one second fixation structure are formed in the second state.

3. The implant according to one of claims 1 to 3, wherein there exists exactly one

second occluding body (2, 2') and wherein the elongate members (1) have first portions (11) being arranged between the first holder (3) and the first occluding body (2), second portions (12) being arranged between the second holder (4) and the second occluding body (2') and third portions (13) being arranged between the first and second occluding body (2, 2').

4. The implant according to claim 3, wherein the first and second portions (11, 12) of each elongate member (1) have approximately the same length.

5. The implant according to claim 3, wherein the first, second and third portions (11, 12) of each elongate member (1) have approximately the same length.

6. The implant according to one of claims 3 or 4, wherein the third portions (13) are not twisted like the first and second portions (11, 12).

7. The implant according to one of claims 3 to 6, wherein in the second state the first portions (11) form the first fixation structure and the second portions (12) form the second fixation structure.

8. The implant according to one of claims 3 to 7, wherein in the second state the third portions form a bended structure with an outer diameter having approximately the same size as the diameter of the cross-section of at least one of the first or second occluding body (2, 2').

9. The implant according to one of claims 1 to 8, wherein in the second state the first and the at least one second occluding body (2, 2') have a cross-section having the same size.

10. The implant according to one of claims 1 to 9, wherein the first and the at least one second occluding body (2, 2') are made of a flexible material and each of said first and second occluding body (2, 2') has in the second state an approximately disk-shaped form and in the first state a compressed form.

11. The implant of claim 10, wherein the first and the at least second occluding body (2, 2') have an at least approximately circular shape.

12. The implant of one of claims 1 to 11, wherein the first and the at least one second occluding body (2, 2') comprise holes (20, 20') and wherein the elongate members (1) are extending through said holes (20, 20').

13. The implant according to one of claims 1 to 13, wherein all elongate members (1) have the same length.

14. The implant according to one of claims 1 to 13, wherein a compressible body (7) is arranged between the first and the at least one second occluding body (2, 2').